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PF020104

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Listing and Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

1. (previously presented) Electrical device for connection to a predetermined network containing at least one watchdog device, where said electrical device comprises:

- storage means,
- configuration means for authorising its operation in the presence of said watchdog device,
- means for identifying at least one watchdog device when the electrical device is connected to any network containing such a watchdog device; and
- means for disabling the electrical device if the watchdog device identified does not correspond to the watchdog device for which it was configured or if said network does not contain a watchdog device, wherein the configuration means are suitable for recording a public identifier of the watchdog device for which the electrical device is configured, in the storage means.

2. (previously presented) Electrical device according to claim 1, wherein the identification means comprise means for interrogating any watchdog device to determine its public identifier.

3. (previously presented) Electrical device according to claim 1, wherein the identification means comprise means for authenticating the watchdog device for which it was configured.

4. (previously presented) Electrical device according to claim 3, wherein the authentication means implement a zero-knowledge challenge/response protocol.

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5. (previously presented) Electrical device according to claim 1, wherein said device is in a state chosen from one of the elements of the assembly comprising a virgin state, a configured state for operating in the presence of at least one watchdog device and a blocked state, the configured state being obtained after activation of the configuration means and the blocked state being obtained after activation of the disabling means.

6. (previously presented) Electrical device according to claim 5, wherein it operates only when it is in the configured state.

7. (previously presented) Antitheft system comprising:
at least one network;
at least one watchdog device connected to the network and containing a public identifier and
at least one electrical device intended to be connected to said network and comprising:
- storage means,
- configuration means for authorising its operation in the presence of said watchdog device, wherein the configuration means are suitable for recording the public identifier of the watchdog device for which the electrical device is configured;
- means for identifying at least one watchdog device when the electrical device is connected to any network containing such a watchdog device; and
- means for disabling the electrical device if the watchdog device identified does not correspond to the watchdog device for which it was configured or if said network does not contain a watchdog device.

8. (previously presented) Anti-theft system according to claim 7, wherein watchdog device comprises secure means for storing a secret identifier from which the public identifier is generated.

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9. (previously presented) Antitheft system according to claim 8, wherein the network is chosen from among one of the elements of the group comprising an electric network, a digital transmission network and a telecommunications network.

10. (previously presented) Method for pairing a first and second device, where the second device is designed to be connected to a network that is connected to the first "watchdog" device, said method comprising a step of configuration of the second device to authorize its operation only in the presence of the watchdog device wherein the step of configuration of the second device comprises the recording, in storage means of the second device, of a public identifier of the watchdog device.

11. (previously presented) Pairing method according to claim 10, wherein the second device is in a state selected from among one of the elements of the assembly made up of a virgin state, of a state configured to operate in the presence of at least one watchdog device and a blocked state, and in that the configuration step contains a change in state of the second device, from the virgin to the configured state.

12 (previously presented) Pairing method according to claim 11, further comprising a step of disabling the second device when this device is connected to a watchdog device for which it was not configured, where this disabling step comprises a change of state of the second device, from the configured state to the blocked state.

13. (previously presented) Pairing method according to claim 11, further comprising a step of identifying a watchdog device connected to a network, when the second device is connected to this network.

14. (previously presented) Pairing method according to claim 13, wherein the identification step is triggered by one of the triggering events from the set of events constituted by a connection of the second device to the network, a start up of the second device and a regular or random identification program.

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15. (previously presented) Pairing method according to claim 13 wherein the identification step comprises the authentication of the watchdog device.

16. (previously presented) Pairing method according to claim 15, wherein the authentication step is realised by the use of a zero-knowledge challenge/response protocol.

17. (previously presented) Pairing method according to claim 16, wherein , the watchdog device comprising means for secure storage of a secret identifier from which a public identifier is generated, the identification comprises a step of interrogating the watchdog device to determine its public identifier and the authentication comprises a series of steps during which the watchdog device proves to the electrical device that it knows the secret identifier using the zero-knowledge challenge/response protocol.

18. (previously presented) Pairing method according to claim 13, wherein if the identification step concludes that the network contains the watchdog device for which the second device was configured whereas the second device is in the blocked state, it is followed by a change in state of the second device from the blocked state to the configured state.

19. (new) Method for connecting an electrical device to a network containing a watchdog device, comprising:

identifying the presence of the watchdog device when the left will device is connected to the network;

configuring operation of the electrical device, wherein operation of the electrical device is authorized only in the presence of the watchdog device, and the configuring operation comprises recording, in a storage means of the electrical device, a public identifier of the watchdog device.

20. (new) Method according to claim 19, wherein the electrical device is in a state selected from among: a virgin state; a state configured to operate in the presence of at least one watchdog device; and a blocked state, and in that the configuring step comprises changing from the virgin to the configured state.

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21. (new) Method according to claim 20, further comprising a step of disabling the electrical device when the electrical device is connected to a watchdog device for which the electrical device was not configured, where the disabling step comprises changing from the configured state to the blocked state.

22. (new) Method according to claim 19, wherein the identifying step is triggered by one of: a start up of the second device; and a regular or random identification program.

23. (new) Method according to claim 19, wherein the identifying step comprises authenticating the watchdog device.

24. (new) Method according to claim 23, wherein the authenticating step comprises using a zero-knowledge challenge/response protocol.

25. (new) Method according to claim 19, wherein, the watchdog device comprises means for secure storage of a secret identifier from which a public identifier is generated, and the identifying step comprises a step of interrogating the watchdog device to determine the public identifier of the watchdog device and the authenticating step comprises use of the zero-knowledge challenge/response protocol by the watchdog device to prove that the watchdog device has the secret identifier.

26. (new) Method according to claim 19, wherein if the identifying step concludes that the network contains the watchdog device for which the second device was configured, but the electrical device is in the blocked state, the electrical device changes state from the blocked state to the configured state.